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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,571	05/16/2005	James Langham Dale	21415-0013	4029
26633 7590 07/03/2007 HELLER EHRMAN LLP 1717 RHODE ISLAND AVE, NW WASHINGTON, DC 20036-3001			EXAMINER	
		•	WORLEY, CATHY KINGDON	
WASHINGTO	0		ART UNIT	PAPER NUMBER
			1638	
				*
	·	•	MAIL DATE	DELIVERY MODE
•			07/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/521,571	DALE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cathy K. Worley	1638				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>18 January 2005</u> .						
	·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 70-138</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to. 8) ☑ Claim(s) <u>1 and 70-138</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) ☐ Notice of Informal P 6) ☑ Other: <u>sequence ali</u>	atent Application				

## DETAILED ACTION

## Election/Restrictions

- 1. Restriction is required under 35 U.S.C. 121 and 372.
- 2. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Groups I-IV, claim(s) 1, 70-77, 87-89, 93-108, 78-80 (in part), and 90-92 (in part), drawn to DNA molecules and constructs comprising specified polynucleotides; wherein the specified polynucleotides for groups I-IV are defined by their relationship to SEQ ID NO: 6-9, respectively.

Groups V-VII, claim(s) 81-82, 84, 83 (in part), and 85 (in part), drawn to polynucleotides comprising nucleotide sequences that encode specified amino acid sequences; wherein the specified amino acid sequence for groups V-VII is SEQ ID NO: 3-5, respectively.

Application/Control Number: 10/521,571

Art Unit: 1638

Groups VIII-X, claim(s) 86 (in part), drawn to an isolated polypeptide comprising a specified amino acid sequence; wherein the specified amino acid sequence for groups VIII-X is SEQ ID NO: 4-6, respectively.

Group XI, claim(s) 109-121, drawn to a method for gene expression in a plant, comprising introducing an isolated promoter or biologically active fragment thereof or variant of these.

Group XII, claim(s) 122, drawn to progeny obtained from a differentiated transgenic plant.

Group XIII, claim(s) 123, drawn to a plant part of a differentiated transgenic plant.

Group XIV, claim(s) 124, drawn to a differentiated transgenic plant regenerated from transformed plant cells.

Group XV, claim(s) 125-133, drawn to a transformed plant cell and transgenic plant.

Group XVI, claim(s) 134, drawn to a method of using a chimeric DNA construct.

Application/Control Number: 10/521,571

Art Unit: 1638

Group XVII, claim(s) 135, drawn to a method for diagnosing a badnaviral infection of a plant.

Groups XVIII-XXVI, claim(s) 137 and 136 (in part), drawn to a method of screening for an agent that modulates badnaviral infection that utilizes either a polypeptide with a specified amino acid sequence or a polynucleotide with a specified nucleic acid sequence; wherein the specified sequence for groups XVIII-XXVI is SEQ ID NO: 1-9, respectively.

Groups XXVII-XXXV, claim(s) 138 (in part), drawn to a method for treating and/or preventing a badnaviral infection of a plant that utilizes either a polypeptide with a specified amino acid sequence or a polynucleotide with a specified nucleic acid sequence; wherein the specified sequence for groups XXVII-XXXV is SEQ ID NO: 1-9, respectively.

3. The inventions listed as Groups I-XXXV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking groups I-XXXV is an isolated DNA comprising a promoter upstream of SEQ ID NO:1 or upstream of a sequence that hybridizes to

Application/Control Number: 10/521,571

Art Unit: 1638

SEQ ID NO:1 or a fragment or variant; or a coding sequence comprising SEQ ID NO:1 or a variant or portion thereof; or a polypeptide encoded by SEQ ID NO:1 or a variant or portion. SEQ ID NO:1 encodes 3 open reading frames (ORFs) from the Taro bacilliform virus (TaBV) (see first page 4 of the instant specification). Huang et al teach the genomic sequence of the Citrus yellow mosaic virus in their article "Cloning and sequence analysis of an infectious clone of Citrus yellow mosaic virus that can infect sweet orange via Agrobacterium mediated inoculation" (see J. of Gen. Virol. (2001) Vol. 82, pp. 2549-2558). They teach that the genomes of all badnaviruses have similar genome organization and contain three open reading frames capable of encoding proteins with a molecule mass greater than 10 kDa (see paragraph bridging pages 2549-2550). The amino acid sequence of one of the proteins encoded by the virus taught by Huang et al is published in GenBank Accession NP\_569153 (See Huang et al (2001) GenBank accession NP\_569153.1). This protein shares substantial homology with the protein encoded by the instant SEQ ID NO:1 (see alignment). This demonstrates that the genomic sequence taught by Huang et al encodes a "portion" and a "variant" of the proteins encoded by the instant SEQ ID NO:1. Therefore, the technical feature linking the inventions of groups I-XXXV does not constitute a special technical feature as defined by PCT Rule 13.2 as it does not define a contribution over the prior art.

Accordingly, Groups I-XXXV are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Art Unit: 1638

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/521,571 Page 7

Art Unit: 1638

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy K. Worley whose telephone number is (571) 272-8784. The examiner has a variable schedule but can normally be reached on M-F 10:00 - 4:00 with additional variable hours before 10:00 and after 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CKW

ANNE MARIE GRUNBERG SUPERVISORY PATENT EXAMINER